IAPO7Rec'd PCT 3 0 JAN 2008

PTO-1390 (Rev. 09-2007)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

038871.58287US

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** 10/594,618 INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. PRIORITY DATE CLAIMED PCT/EP2005/005154 May 12, 2005 May 25, 2004 and October 28, 2004 TITLE OF INVENTION COOLING APPARATUS COMPRISING A THERMAL INTERFACE AND METHOD FOR RECONDENSING A CRYOGEN GAS APPLICANT(S) FOR DO/EO/US **Timothy John HUGHES** Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 1. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 2. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items 3. (5), (6), (9) and (21) indicated below. 4 The US has been elected (Article 31). 5: A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). a. has been communicated by the International Bureau. b. Is not required, as the application was filed in the United States Receiving Office (RO/US). C. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. is attached hereto. a. b. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. have not been made; however, the time limit for making such amendments has NOT expired. C. d. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (one (1) page). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 11. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. 13. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. 15 A power of attorney and/or change of address letter. 16 A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 17. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 18 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 19

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 09-2007)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATION			NTERNATIO	ONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER		
10/594,618			PC	T/EP200	5/005154	038871.58287US		
	er items or informa ension of Time U				of Missing	Requirements da	ated October 31, 2007	and a Petition for
The	following fees hav	ve been subm	nitted				CALCULATIONS	PTO USE ONLY
21. Bas							\$	
2⁄2.	mination fee (37 C	F.R. §1.492	(c))					
by IPEA/US	ion prepared by IS indicates all claim	s satisfy prov	isions of PC	T Article 33(1))-(4)	\$0.00		
All other situations \$210.00						\$		
If the written opin IPEA/US ind Search fee (37 C International International Sea	irch fee (37 C.F.R. ion of the ISA/US dicates all claims s FR 1.445(a)(2)) had I Searching Author rch Report prepare ommunicated to the s	or the Interna atisfy provisions as been paid rityed by an ISA are US by the	ons of PCT on the interronder than the interronder	Article 33(1)-(4 national applica he US and pro	ation to the	\$0 USPTO as an \$100 e Office or \$410		
All other situation	-	L OF 21, 22					\$ 	
listing in cor listing filed i	ee for specification npliance with 37 C n an electronic me	and drawings FR 1.821(c) of dium) (37 CF	s filed in par or (e) in an e R 1.492(j)).	electronic medi	ium or com			
Total Sheets	The fee is \$260 for each additional 50 sheets of paper or fraction thereof. Total Sheets				RATE	1		
- 100 / 50 = thereof (round up to a whole number		whole number)	,	× 260	\$			
	0.00 for furnishing commencement of				e, or the oa	th or declaration	\$130.00	
CLAIMS	NUMBE	R FILED	NUMBE	R EXTRA		RATE		
Total claims		- 20				x 50	\$	
Independent cla	ims	- 3				x 210	\$	
MULTIPLE DEPE	ENDENT CLAIM(S) (if applicabl	le)		· · · · · · · · · · · · · · · · · · ·	+ 370	\$	
TOTAL OF ABOVE CALCULATIONS =						\$130.00		
Applicant cla	ims small entity sta	atus. See 37	CFR 1.27. I	ees above are	e reduced	by ½.		
						SUBTOTAL =	\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i))+					\$			
					TOTAL	NATIONAL FEE =	\$130.00	
	the enclosed assi cover sheet (37 C					be accompanied	\$	
/B1/2008 LLANDGRA	31/2008 LLANDGRA 00000059 10594618 TOTAL FEES ENCLOSED =							
C:1617 130.00 OP					Amount to be refunded:	\$		
					_		Amount to be charged:	\$

PTO-1390 (Rev. 09-2007)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

a.		A check in the amount of \$ to cover the above fees is enclosed.							
b.		Please charge my Deposit Account No. 05-1323 (Attorney Docket No. 038871.58287US) in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.							
C.	\boxtimes	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 05-1323 (Attorney Docket No. 038871.58287US). A duplicate copy of this sheet is enclosed.							
d.		Fees are to be charged to a credit card. WARNING : Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. The PTO-2038 should only be mailed or faxed to the USPTO. However, when paying the basic national fee, the PTO-2038 may NOT be faxed to the USPTO.							
ŷ		ADVISORY: If filing by EFS-Web, do NOT attach the PTO-2038 form as a PDF along with your EFS-Web submission. Please be advised that this is not recommended and by doing so your credit card information may be displayed via PAIR. To protect your information, it is recommended paying fees online by using the electronic payment method.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
, SEI	ND AL	Signature Sign							



U)

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Viginia 22313-1450 www.umpto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO.

10/594,618 Timothy John Hughes 038871.58287US

23911 CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300 INTERNATIONAL APPLICATION NO.

PCT/EP05/05154

1.A. FILING DATE PRIORITY DATE

05/12/2005 05/25/2004

CONFIRMATION NO. 5012 371 FORMALITIES LETTER

Date Mailed: 10/31/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- Priority Document
- Copy of the International Application filed on 09/28/2006
- · Copy of the International Search Report filed on 09/28/2006
- · Copy of IPE Report filed on 09/28/2006
- Copy of Annexes to the IPER filed on 09/28/2006
- Preliminary Amendments filed on 09/28/2006
- Information Disclosure Statements filed on 09/28/2006
- Request for Immediate Examination filed on 09/28/2006
- U.S. Basic National Fees filed on 09/28/2006
- Priority Documents filed on 09/28/2006
- Specification filed on 09/28/2006
- Claims filed on 09/28/2006
- Abstracts filed on 09/28/2006
- Drawings filed on 09/28/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filling date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

page 1 of 2

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

VONDA M WALLACE	
Telephone: (703) 308-9140 EXT 225	